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WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
UTAH

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of UTAH

In cooperation with U.S. Forest Service, Bureau of Reclamation,
Utah Fish and Game Dept., Utah Agricultural Experiment Station,
U.S. National Park Service, U.S. Geological Survey; and other
Federal, State, and private organizations.

||||||| AS OF |||||||
APR. 1, 1963

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 4170, Portland 8, Oregon.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RIGHTS BR., DEPT. OF LANDS, FORESTS AND NATURAL RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
UTAH

APRIL 1, 1963

Report prepared by

GREGORY L. PEARSON, Snow Survey Supervisor

and

GARRY DINSDALE, Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
222 SOUTH WEST TEMPLE
SALT LAKE CITY 1, UTAH

Issued by

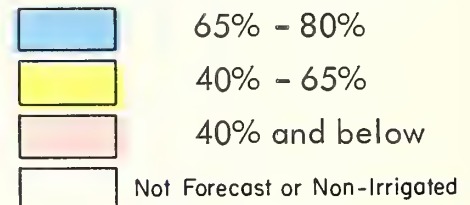
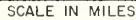
WAYNE D. CRIDDLE
STATE ENGINEER
STATE OF UTAH
SALT LAKE CITY, UTAH

J.A. LIBBY
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

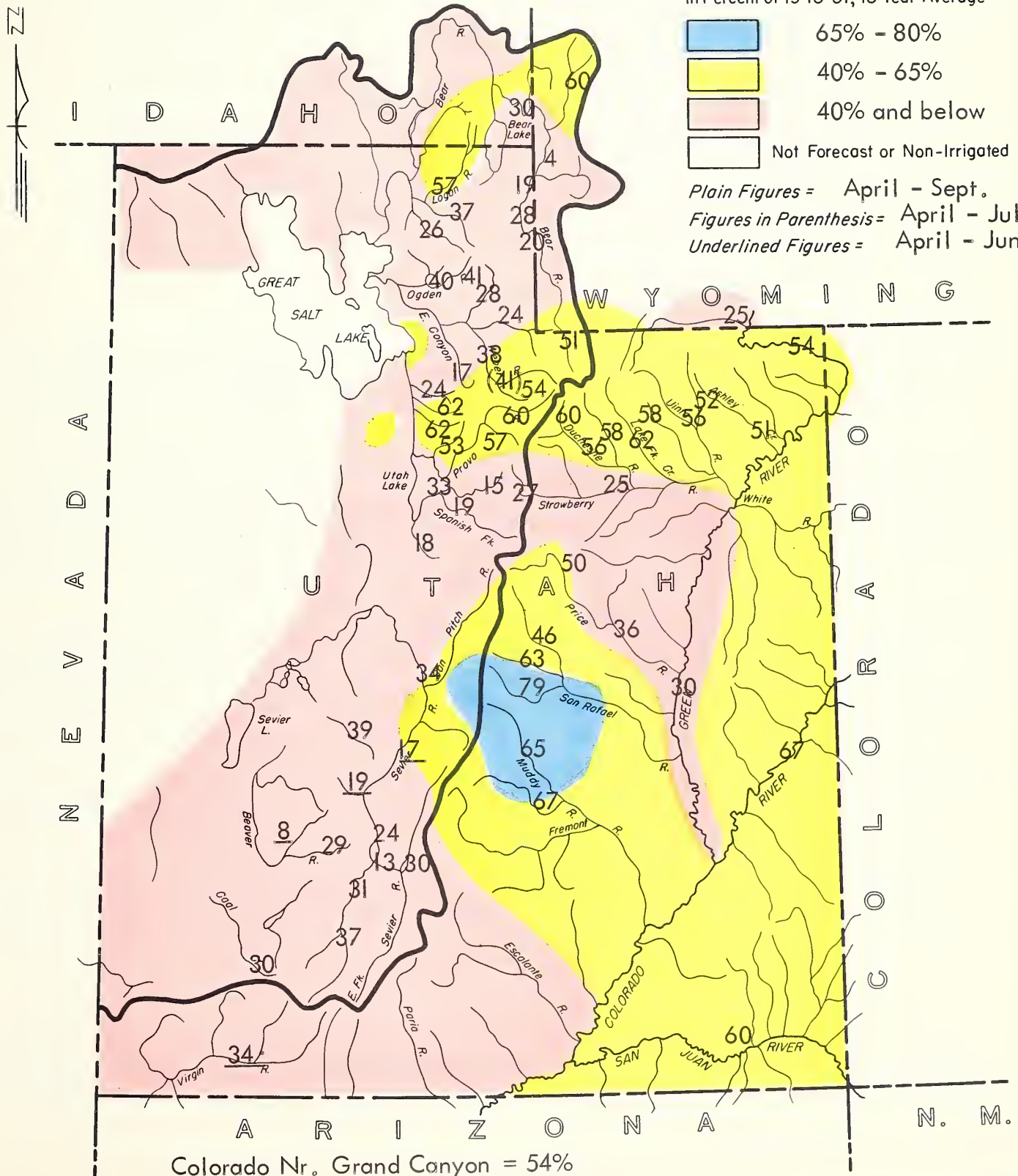
DR. D.W. THORNE
DIRECTOR
UTAH AGRICULTURAL
EXPERIMENT STATION
LOGAN, UTAH

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

Approximate Date



Plain Figures = April - Sept.
 Figures in Parenthesis = April - July
 Underlined Figures = April - June



Colorado Nr. Grand Canyon = 54%

WATER SUPPLY OUTLOOK

as of

APRIL 1, 1963

* * * * *
* Most stream forecasts now range between about 15% and 55% *
* of average. Some streams in the southwestern section of *
* the state are expected to have new record low supplies *
* this summer. This includes the Beaver and Virgin rivers, *
* Coal Creek at Cedar City and the Sevier river at Hatch. *
* Highest forecast is for Ferron Creek, at 79%. Reservoir *
* storage on the Sevier and Beaver rivers is 47% average, *
* in Utah Lake it is 48% and in Strawberry reservoir 40%. *
* In the remaining reservoirs of northern and central Utah, *
* storage is 110% of average. *
* * * * *

March storms failed to bring any major improvement in the water outlook for most of the state. Instead, forecasts for the majority of streams have dropped 3% to 15% below what was expected the first of March. Now, most stream forecasts range between about 15% and 55% of average.

Although increases in snowpack water during March varied from about average to one half the average amount, an outstanding exception occurred in central Utah on the headwaters of Ferron Creek, Muddy River, Cottonwood Creek above Castledale, Twelve Mile Creek above Mayfield and on Manti Creek. Here, snow water increases during the month varied between 120% and 180% of average.

As a result, Ferron Creek now has the highest forecast in the state, with 79% of average streamflow expected this summer. Although the snowpack at the Buck Flat snow course near Ferron reservoir is 97% of average, the soils are dry and the low snow cover is not as good as it is at the higher elevations. This results in the lower percentage for expected streamflow.

Forecasts for the above named streams adjacent to Ferron Creek range from about 65% to 75% of average.

Next high - with forecasts ranging from 55% to 65% - are streams from Ephraim to Mt. Pleasant, streams near Moab, the Cottonwood Creeks near Salt Lake, Farmington Creek, the upper Provo, Weber and Logan rivers, and streams from the Duchesne to Uinta rivers.

Everything else in the state is forecast at less than 55% of average.

Assuming that average weather conditions will prevail for the balance of the spring and summer, some of the southwestern streams of the state will establish new record low streamflow measurements this summer. Included among these are

the Beaver river near Beaver, the Virgin river, Coal Creek at Cedar City and the Sevier River at Hatch.

Of 20 snow courses in this area, 11 have set new record low readings, 7 have equaled previous lows, while only 2 have slightly higher readings than previously recorded lows.

Forecasts for these southwestern streams range from a low of 8% for inflow to Rocky Ford reservoir on the Beaver river to a high of 37% for the Sevier at Hatch.

Outlook for the rest of the Sevier river system - although not record low - is extremely poor. Forecast inflow to the river between Kingston and Vermillion Dam is expected to be 17%, while between Vermillion Dam and Gunnison the forecast is 48%. For the Sevier river at Gunnison 34% is expected, while the streams near Fillmore should yield from 30% to 40%.

The outlook is very poor for water users served by Utah Lake, and for those served by the southern tributaries to the Lake. Utah Lake will supply essentially the same amount of water it did in 1961, while the Spanish Fork river, Hobbie Creek near Springville and Payson Creek are expected to yield at or below the 1961 amounts. Specifically, Hobbie Creek is forecast at 15%, Payson Creek 18%, Spanish Fork river 19% and Utah Lake 33%.

Elsewhere in the state the outlook is particularly poor for the lower elevation watersheds. Among these, where forecasts range from 15% to 30%, are Parley's Creek near Salt Lake, East Canyon Creek near Morgan, Chalk Creek near Coalville, Lost Creek near Croydon, Little Bear river in Cache Valley, the main Bear river and smaller streams near Woodruff and Randolph, Strawberry river at Duchesne and inflow to Strawberry reservoir.

Streams where prospects vary between about 35% and 50% include the following - Blacksmith Fork and Ogden rivers, Weber river near Coalville, American Fork river, streams near Tooele, Vernal, Monticello and Blanding, the Fremont and Price rivers.

While reservoir storage is good for part of the state, it should be remembered that there are water users in these areas who have natural flow rights only and cannot benefit from the storage. These people will feel the lack of water and will need to adjust their cropping patterns and other needs to the supply available.

TIPS to CONSERVE WATER and MAINTAIN PRODUCTION

MAKING THE MOST OF YOUR IRRIGATION WATER

In order to make the most efficient and effective use of the available irrigation water, the following guides will help:

1. Know at the beginning of the irrigation season, just what the water-supply prospects are and plan accordingly by cutting lengths of run, or by applying water to narrower strips, or by making crop adjustments.
2. Prevent loss in the use of irrigation water:
 - a. Keep ditches clean and weed-free.
 - b. Install good control structures in canals and field ditches to save water and time.
 - c. Combine irrigation streams with your neighbor to prevent loss in ditch wetting .
 - d. Combine streams on the farm and irrigate with larger streams of water for a shorter time.
 - e. Fix leaky structures.
 - f. Divert waste water into lower ditches for reuse, or into a sump. Pump from the sump for reuse.
3. Know the water requirements of the crops to be grown and the type of soil being irrigated:
 - a. Where water is available for use, fill the root zone as early in the spring as it is practical to irrigate. Use only enough water to replace the moisture deficiency in the root zone of the crop being replaced.
 - b. Apply water only when needed.
 - c. Use shovel or soil auger to find out when to irrigate and how much to irrigate.
 - d. Check depth of water penetration during and after each irrigation with an auger or shovel.
 - e. Call your local Soil Conservation Service technician, or your County Agent, for help in determining water-holding capacity of soils and water requirements of your crops.

CROP PRIORITY FOR USE OF IRRIGATION WATER

Use water on crops in the following priority:

1. Established stands of hay and pasture to meet essential feed requirements for livestock enterprises.

TIPS to CONSERVE WATER and MAINTAIN PRODUCTION

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 - e. Call your local Soil Conservation Service technician, or your County Agent, for help in determining water-holding capacity of soils and water requirements of your crops.

CROP PRIORITY FOR USE OF IRRIGATION WATER

Use water on crops in the following priority:

1. Established stands of hay and pasture to meet essential feed requirements for livestock enterprises.

2. On farms where high value cash crops are grown, limit acreage to that for which adequate water is available.
3. Small grain seeded to meet the normal feed requirements.
4. Additional acreage of small grains (primarily barley or oats) to be used as temporary substitute for hay or pasture in the feed rations for livestock. These crops use less water than hay or pasture.
5. Small grain and vetch for hay, or other short season forage adaptable on land which may be withheld from production of row crops because of short water supply.
6. Corn silage or grain corn.
7. Other crops which are grown for purposes of supplemental feed over and above the minimum requirements.
8. Establish new stands of permanent hay or pasture for future needs or contemplated expansion, only if later water will be available.

CROPPING AND MANAGEMENT ADJUSTMENTS

To make the most effective use of a limited water supply:

1. Plant early-maturing, low water demand crops such as small grains for hay or silage.
2. Time all operations of seeding, irrigation, and harvesting to take full advantage of available moisture. Early planting of small grains is especially desirable.
3. Till the soil a minimum number of times to prepare an adequate seedbed. Cultivate only as often as necessary to control weeds. Use sprays instead of tillage where possible.
4. Control weeds on ditch banks and in the field to conserve water.
5. Maintain a high fertility level on those crops for which irrigation water is available, but be careful in applying fertilizer on fields where the water supply may be short.
6. Rough plow and leave idle the less productive land if irrigation water is not available for the entire farm.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	AVERAGE ^b	THIS YEAR AS PERCENT OF AVERAGE
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GREAT BASIN

BEAR RIVER SYSTEM

Bear nr Ut-Wyo. State Line	63	Apr-Sept	142	123	51
Bear nr Woodruff	27	Apr-Sept	134	133	20
Woodruff Crk nr Woodruff, Ut.	5.5	Apr-Sept	18.7	19.4*	28
Big Crk nr Randolph, Ut.	1.8	Apr-Sept	6.5	9.7*	19
Bear nr Randolph	5	Apr-Sept	104	115	4
Smith's Fork nr Border, Wyo.	71	Apr-Sept	142	119	60
Bear at Marer, Idaho	90	Apr-Sept	358	299	30
Little Bear nr Paradise	12	Apr-Sept	55	46	26
Logan nr Logan (1)	82	Apr-Sept	140	143	57
Blacksmith Fork nr Hyrum (2)	25	Apr-Sept	64	67	37

WEBER-OGDEN RIVERS

Weber nr Oakley	56	Apr-June	119	107	52
	72	Apr-Sept	148	134	54
Wanship Reservoir Inflow (3)	53	Apr-July	148	130*	41
Weber nr Coalville (4)	55	Apr-Sept	155	143	38
Chalk Crk at Coalville	10	Apr-Sept	33	42	24
Lost Crk nr Croydon, Ut.	5.5	Apr-Sept	14.8	19.9	28
East Canyon Crk nr Morgan (5)	5	Apr-Sept	22.2	28.7	17
So. Fork Ogden nr Huntsville	29	Apr-Sept	67	70	41
Pineview Reservoir Inflow (6)	57	Mar-July	142	142	40

PROVO RIVER & UTAH LAKE

Strawberry Reservoir Inflow (7)	15	Apr-Sept	68	56	27
Spanish Fork at Thistle	8	Apr-Sept	47	43	19
Payson Creek nr Payson	1.4	Apr-Sept	8.6	8.0*	18
Hobble Crk nr Springville	3.5	Apr-Sept	26.8	23.7*	15
Provo nr Hailstone (8)	70	Apr-Sept	146	116 *	60
Provo at Vivian Park (9)	90	Apr-Sept	218	159	57
American Fork nr American Fork	19	Apr-Sept	38	36	53
Utah Lake Inflow	100	Apr-Sept	299	317	33

JORDAN RIVER & SALT LAKE

Little Cottonwood Crk nr SLC	24	Apr-Sept	44	39	62
Big Cottonwood nr SLC	25	Apr-Sept	44	40	62
Parley's Crk nr SLC	3.5	Apr-Sept	11.9	14.7	24

(1) Includes U.P. & L. Co. tailrace and Logan, Hyde Park & Smithfield Canal. (2) Above Utah Power & Light Company's dam. (3) Observed flow Weber River near Wanship, Utah, plus change in storage in Wanship Reservoir, plus diversion by Weber-Provo Canal. (4) Includes diversion by Weber-Provo Canal and change in storage in Wanship Reservoir. (5) Observed flow plus change in storage in East Canyon Reservoir. (6) Inflow record as computed by U.S. Bureau of Reclamation. (7) Change in storage plus diversion thru Strawberry tunnel. (8) Observed flow minus diversions thru Duchesne tunnel and Weber-Provo Canal. (9) Observed flow plus change in Storage in Deer Creek reservoir, minus diversions thru Duchesne tunnel & Weber-Provo Canal, plus diversion thru Salt Lake Aqueduct.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	AVERAGE ^b	THIS YEAR AS PERCENT OF AVERAGE
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SEVIER RIVER

Sevier at Hatch	10	Apr-June	48	35	29
	18	Apr-Sept	62	49	37
Sevier nr Circleville	13.5	Apr-Sept	54	43*	31
Sevier nr Kingston	2.3	Apr-June	28.9	24.6	9
	4	Apr-Sept	30.9	29.7	13
East Fork Sevier nr Kingston(10)	3	Apr-June	19.8	17.2	17
	6.5	Apr-Sept	22.4	21.6	30
Sevier below Piute Dam (11)	12	Apr-Sept	49	51	24
Clear Crk nr Sevier(abv.Div.)	3	Apr-June	14.5	15.9*	19
Inflow					
Kingston to Vermillion Dam	8	Apr-June	- -	47	17
Vermillion Dam to Gunnison	30	Mar-June	- -	63	48
Salina Crk at Salina(12)	0.1	Apr-June	11.5	9.4*	1
Sevier nr Gunnison a	22	Apr-Sept	54	64	34
Chalk Creek nr Fillmore	8	Apr-Sept	22.0	20.3*	39

BEAVER RIVER

Beaver nr Beaver	6	Apr-June	19.9	22.3	27
	8.5	Apr-Sept	27.5	29.4	29
Rockyford Reservoir Inflow(13)	0.7	Apr-June	3.5	9.2	8

COAL CREEK

Coal Crk nr Cedar City	5.0	Apr-Sept	21.0	16.6	30
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COLORADO RIVER BASIN

GREEN RIVER TRIBUTARIES IN UTAH

FLAMING GORGE TO DUCHESNE RIVER

Henry's Fork at Linwood	10	Apr-Sept	- -	40	25
Ashley Creek nr Vernal	30	Apr-Sept	82	59	51

DUCHESNE RIVER

Duchesne at Provo River (Trail nr Hanna)	25	Apr-Sept	- -	42*	60
Duchesne nr Tabiona(14)	70	Apr-Sept	158	124	56
Rock Crk nr Mtn. Home	63	Apr-Sept	131	109	58
Strawberry at Duchesne	20	Apr-Sept	94	79	25
Lakefork below Moon Lake(15)	47	Apr-Sept	100	78	62
Uinta nr Neola	57	Apr-Sept	135	101	56
Whiterocks nr Whiterocks	35	Apr-Sept	91	67	52
Yellowstone nr Altonah	46	Apr-Sept	100	79*	58

(10) Observed flow plus change in storage in Otter Creek Reservoir. (11) Observed flow plus change in storage in Otter Crk & Piute Reservoirs. (12) Gage is below diversions near Salina. (13) Observed flow at Rockyford Dam, corrected for change in storage in Rockyford Reservoir. (14) Observed flow plus diversion through Duchesne Tunnel. (15) Observed flow plus change in storage in Moon Lake Reservoir.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	AVERAGE ^b	THIS YEAR AS PERCENT OF AVERAGE
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PRICE RIVER

Gooseberry Crk nr Scofield	7	Apr-Sept	16.8	12.6	56
Scofield Reservoir Inflow(16)	20	Apr-Sept	51	40	50
Price nr Heiner(16)	25	Apr-Sept	96	70	36

SAN RAFAEL RIVER

Huntington Crk nr Huntington	27	Apr-Sept	72	59	46
Cottonwood Crk nr Orangeville	37	Apr-Sept	56	59	63
Ferron Crk nr Ferron	34	Apr-Sept	60	43*	79

MUDDY RIVER

Muddy Creek nr Emery	15	Apr-Sept	32	23.1*	65
Ivie Creek abv. Div. nr Emery	1.2	Apr-Sept	- -	1.8*	67

VIRGIN RIVER

Virgin at Virgin	15	Apr-June	57	44	34
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UPPER COLORADO BASIN

Colorado nr Cisco, Utah	2700	Apr-Sept	5201	4059	67
Flaming Gorge Inflow(17)d	800	Apr-Sept	1677	1471	54
Green at Green River, Utah(17)	1680	Apr-Sept	4392	3540	30
San Juan nr Bluff, Utah (18)	735	Apr-Sept	1126	1226	60
Colorado nr Grand Canyon (17-18)	4000	Apr-July	10888	8056	50
	4900	Apr-Sept	11727	9155	54

(16) Observed flow plus change in storage in Scofield Reservoir. (17) Observed flow plus change in storage in Flaming Gorge and Big Sandy Reservoirs. (18) Observed flow plus change in storage in Navajo Reservoir.

GENERAL FOOTNOTES

(a) Runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. The discharge data is taken from preliminary records of the U.S. Geological Survey. (b) 1943-57, 15 year period. *Partly estimated.

RESERVOIR STORAGE (1,000 Ac. Ft.)

BASIN or STREAM	RESERVOIR	USABLE CAPACITY	MEASURED (FIRST OF MONTH)		
			THIS YEAR	LAST YEAR	AVERAGE ^a
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	777.4	547.6	848.8
	Woodruff Narrows	26.5	18.5	20.0	- -
<u>Little Bear</u>	Hyrum	15.3	15.3	13.0	11.8
	Porcupine	11.3	3.0	- -	- -
<u>Ogden</u>	Pineview	110.0	69.8	40.0	9.7
<u>Weber</u>	Rockport	60.9	31.9	21.9	- -
	Echo	73.9	45.6	30.4	35.7
	East Canyon	28.7	20.5	8.6	17.6
<u>Provo</u>	Deer Creek	149.7	113.4	51.9	84.2
<u>Spanish Fork</u>	Strawberry	270.0	55.5	21.9	137.6
<u>Utah Lake</u>	Utah Lake (b)	1149.0	317.2	314.2	658.0
<u>Sevier River</u>	Otter Creek	52.5	25.5	28.2	36.7
	Piute	74.0	23.9	41.9	54.2
	Sevier Bridge	236.1	70.0	71.7	166.0
<u>Beaver River</u>	Rocky Ford	23.3	9.9	10.1	17.0
COLORADO RIVER DRAINAGE					
<u>Ashley Creek</u>	Steinaker	33.3	16.1	- -	- -
<u>Lake Fork</u>	Moon Lake	35.8	16.3	26.2	15.5
<u>Price River</u>	Scofield	65.8	19.9	3.4	17.9
<u>Green</u>	Flaming Gorge	3789.0*	108.7	- -	- -
<u>San Juan</u>	Navajo	1709.0*	149.7	- -	- -
<u>Colorado</u>	Lake Powell	28040.0*	312.0	- -	- -

All data contained in this table supplied by the U.S. Geological Survey

* - Total capacity reported

COMPARISON of SNOW COVER

RIVER BASIN or TRIBUTARY WATERSHED	NO. of COURSES AVERAGE	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	AVERAGE *
GREAT BASIN			
Bear River South of Evanston, Wyo.	4	54	58
Smith's Fork - Bear River (Wyo)	5	58	74
Emigration Creek (Idaho)	2	60	66
Strawberry-Mink Creeks (Ida)	3	36	38
Cub River (Ida)	2	42	47
Logan River	6	57	61
Blacksmith Fork-Little Bear	5	48	57
Malad River (Idaho)	2	26	29
Ogden River	5	45	55
Weber River above Echo Dam	8	50	56
Chalk Creek - Coalville	3	51	53
East Canyon Creek	3	51	54
Farmington Creek	2	50	62
Salt Lake Area	4	53	56
Tooele Area	3	31	37
American Fork River	3	38	42
Provo River above Vivian Park	6	51	58
Strawberry Reservoir Valley	3	48	57
Hobble Creek	2	26	34
Mt. Nebo Area	2	36	41
Sevier River above Panguitch	6	16	22
East Fork Sevier River	4	30	36
Clear Creek above Sevier	1	44	46
Salina Creek	2	58	66
Mt. Pleasant Area	3	55	74
Ephraim Area	2	58	76
Manti Area	2	60	81
Mayfield Area	2	64	86
Chicken Creek-Levan	1	38	58
Chalk Creek - Fillmore	3	31	46
Beaver River	3	33	39
Parowan Creek	3	30	40
Coal Creek - Cedar City	4	20	28
Enterprise - New Harmony	1	3	5
COLORADO RIVER BASIN IN UTAH			
Duchesne River above Tabiona	3	56	63
Strawberry River	4	40	53
Lakefork River	2	36	56
Whiterocks-Uintah Rivers	3	28	39
Ashley - Brush Creeks	4	30	42
Price River	8	39	52
San Rafael Tributaries	9	58	78
Muddy River	2	59	67
Fremont River	5	44	49
Escalante River	2	38	49
Virgin River	4	13	19
LaSal Mtns. near Moab	2	71	71
Blue Mtns. nr Monticello	2	55	57

* Actual or Estimated 1943-57, 15 year Average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (Above Harer, Idaho)

Big Park	10G11	8700	3/28	44	15.4	26.7	20.6*
Burts-Miller Ranch	10J6	7900	3/21	8	3.6	6.9	6.1
CCC Camp x	10G7	7500	3/29	27	8.5	11.5	12.3
Hayden Fork	10J7	9300	3/21	37	11.4	21.3	18.3*
Kelly Ranger Station	10G12	8200	3/28	33	12.7	24.7	18.1*
Monte Cristo R.S.	11H12	8960	3/28	55	19.7	33.0	27.9
Piney LaBarge x	10G10	8820	3/29	46	16.1	26.3	20.5
Poison Meadows x	10G6	8500	3/29	73	25.7	39.6	29.8*
Salt River Summit x	10G8	7900	3/29	38	11.8	19.4	16.1*
Stillwater Camp	10J17	8550	3/21	27	7.8	12.3	13.5*
Trial Lake x	10J8	9800	3/28	58	18.8	31.2	29.1

LOWER BEAR RIVER (Below Harer, Idaho)

Beaver Crk-Skunk Crk.	11H14	7150	3/28	14	6.5	14.2	13.7*
Christensen Ranch	11G11	5600	3/27	0	0.0	9.9	8.7*
Cub River R.S.	11G12	5400	3/27	0	0.0	10.0	7.4*
Dry Bread Pond x	11H13	8230	3/28	38	13.4	23.3	20.0
Dry Creek Flat	12G4	6350	3/27	0	0.0	7.6	3.7*
Emigration Canyon	11G7	6500	3/26	18	7.2	12.2	10.7*
Emigrant Summit	11G6	7700	3/26	49	16.8	27.2	25.7
Franklin Basin	11G8	8200	3/29	61	21.1	32.0	29.2
Garden City Summit	11H7	7600	3/29	37	13.1	23.4	20.3
Klondike Narrows	11H1	7400	3/29	39	13.9	22.8	20.0*
Little Bear(lower)	11H26	6100	3/26	2	1.1	13.2	9.0*
Little Bear(upper)	11H25	6850	3/26	11	4.3	16.7	12.0*
Monte Cristo R.S.	11H12	8960	3/28	55	19.7	33.0	27.9
Oxford Mountain	12G3	6800	3/27	13	4.8	9.0	8.2*
Slug Creek Divide	11G5	7225	3/28	33	13.2	19.2	16.8
Steep Hollow #1	11H27	8500	3/29	75	28.2	42.0	- -
Steep Hollow #2	11H28	7700	3/29	54	19.2	30.8	- -
Strawberry Creek	11G9	5800	3/26	0	0.0	13.4	12.4*
Strawberry Mink Divide	11G10	6800	3/26	26	11.5	24.6	23.3*
Tony Grove R.S.	11H3	6250	3/29	10	4.1	12.8	10.5*
Willow Flat	11G4	6100	3/27	6	3.3	17.6	15.1*

OGDEN RIVER

Beaver Crk-Skunk Crk.	11H14	7150	3/28	14	6.5	14.2	13.7*
Ben Lomond Peak	11H8	8000	3/26	66	23.5	49.6	36.0*
Ben Lomond(lower)	11H9	5850	3/26	12	4.0	18.8	15.0*
Ben Lomond Trail	11H30	6000	3/26	14	5.0	- -	- -
Cutler Creek	11H29	6780	3/26	49	17.2	- -	- -

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.

SNOW

SNOW			CURRENT INFORMATION			PAST RECORD	
DRAINAGE BASIN and SNOW COURSE			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a
OGDEN RIVER - Continued							
Dry Bread Pond	11H13	8230	3/28	38	13.4	23.3	20.0
Horse Ridge	11H21	8260	3/25	51	17.1	- -	- -
Monte Cristo R.S.	11H12	8960	3/28	55	19.7	33.0	27.9
Sagebrush Flat	11H15	6300	3/28	Trace		4.6	1.4*
WEBER RIVER							
Beaver Creek R.S.	11J24	7500	3/28	9	4.7	11.1	9.3
Chalk Creek #1	11J1	9100	3/25	55	18.1	26.3	25.7*
Chalk Creek #2	11J2	8000	3/25	33	10.5	16.5	16.2*
Chalk Creek #3	11J3	7500	3/25	5	1.8	9.0	7.6*
Farmington Canyon(lower)	11J12	6950	3/29	38	13.2	29.9	24.6*
Farmington Canyon(upper)	11J11	8000	3/29	60	20.2	35.9	28.6*
Horse Ridge	11H21	8260	3/25	51	17.1	- -	- -
Kilfore Creek	11H31	7300	3/25	32	10.6	- -	- -
Lamb's Canyon x	11J14	6600	3/29	27	6.8	16.1	15.6
Lost Creek Reservoir	11H32	6125	3/25	0	0.0	- -	- -
Parley's Canyon Smt.	11J15	7500	3/30	34	11.2	20.1	19.0
Redden Mine(lower)	11J6	8500	3/27	36	12.3	24.7	21.0
Redden Mine(upper)	11J5	9000	3/27	36	12.9	26.4	22.1
Silver Lake x	11J16	8725	3/28	50	16.8	31.0	28.7
Smith & Morehouse	11J4	7600	3/26	20	7.8	16.1	14.1
Trial Lake x	10J8	9800	3/28	58	18.8	31.2	29.1
PROVO RIVER & UTAH LAKE							
Camp Altamont	11J20	7300	3/28	11	3.5	21.8	18.3
Clear Creek Ridge #1	11K21	9200	3/26	38	12.1	23.9	18.9*
Clear Creek Ridge #2	11K22	8000	3/26	22	5.9	17.4	15.0*
Clear Creek Ridge #3	11K23	6600	3/26	1	0.7	10.8	6.7*
Daniels-Strawberry Smt.	11J23	8000	3/26	26	10.0	20.8	16.4
Dutchman R.S.	11J17	7500	3/28	25	11.4	22.3	20.2
East Portal	11J7	7560	3/30	14	6.2	17.0	13.1
Hobble Creek Summit	11J22	7300	3/26	22	6.2	18.9	14.8
Packard Canyon	11J31	6400	3/26	8	2.8	15.0	10.5*
Payson R.S.	11K1	8050	3/27	31	10.6	22.0	19.1*
Rock Bridge	11K2	6750	3/27	10	3.6	14.8	13.3*
Soapstone R.S.	11J25	7800	3/28	24	8.9	14.7	14.0
South Fork R.S.	11J19	6100	3/28	0	0.0	5.0	4.8
Strawberry Divide	11J8	8000	3/30	39	14.1	23.9	22.1
Timpanogos Cave Camp	11J18	5500	3/28	0	0.0	3.1	2.2
Timpanogos Divide	11J21	8140	3/28	36	14.6	30.2	28.0
Trial Lake	10J8	9800	3/28	58	18.8	31.2	29.1

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

JORDAN RIVER & TOOELE VALLEY

Bevan's Cabin	12J2	6450	4/2	7	1.4	12.7	12.4*
Lamb's Canyon	11J14	6600	3/29	27	6.8	16.1	15.6
Middle Canyon - Tooele	12J3	7000	3/27	14	5.2	15.3	13.5*
Mill D South Fork	11J10	7400	3/28	37	12.8	21.5	20.8
Parley's Canyon Smt. x	11J15	7500	3/30	34	11.2	20.1	19.0
Rocky Basin-Settltmt. Cyn.	12J1	8900	4/2	55	15.4	31.8	24.4*
Silver Lake	11J16	8725	3/28	50	16.8	31.0	28.7

UPPER SEVIER RIVER (South of Richfield, Utah)

Big Flat x	12L7	10290	3/26	38	11.2	22.3	20.0
Box Creek	12L4	9800	3/26	29	6.9	15.8	15.0*
Bryce Canyon	12M8	8000	3/30	0	0.0	6.3	4.0
Castle Valley	12M13	9700	3/29	26	7.0	20.0	14.0*
Cedar Breaks	12M1	10390	3/28	38	9.6	33.4	24.0
Duck Creek R.S.	12M4	8560	3/27	4	1.6	24.8	15.9
Fish Lake	11L3	8700	3/25	Trace		9.5	8.3
Harris Flat R.S.	12M5	7700	3/27	Trace		14.4	8.5
Kimberly Mine	12L6	8900	3/27	29	8.0	18.2	17.4
Long Valley Jct. x	12M6	7500	3/27	0	0.0	7.1	4.2
Midway Valley	12M2	9800	3/28	36	8.8	33.0	25.2*
Panguitch Lake	12M7	8200	3/29	Trace		4.6	5.1
Squaw Springs	12L5	9300	3/26	11	3.3	9.2	9.2*
Widtsoe-Escalante Smt.	11M1	9500	3/28	11	3.8	10.8	7.5
Widtsoe-Escalante #2	11M2	9500	3/28	21	4.9	12.1	10.4*
Widtsoe-Escalante #3	11M3	9500	3/28	30	7.6	14.2	- -

LOWER SEVIER RIVER (Including San Pitch River)

Bear Canyon	12L3	7200	3/27	12	3.9	13.4	11.3*
Beaver Dams	11K13	8000	3/26	33	11.8	18.0	12.8*
Farnsworth Lake	11L1	9900	3/28	41	13.2	20.8	18.7*
G.B.R.C. Headquarters	11K11	8700	3/29	35	12.0	24.9	17.2
G.B.R.C. Meadows	11K10	10000	3/29	64	21.7	31.3	26.0
Gooseberry R.S.	11L2	8400	3/28	23	7.1	13.6	11.5
Gooseberry Reservoir x	11K4	8700	3/27	38	14.4	26.7	20.2
Huntington-Horseshoe	11K5	9800	3/27	54	19.8	33.6	24.5
Mammoth R.S.-Ctnwood Crk,	11K3	8800	3/27	40	15.2	29.2	21.3
Middle Fork	11K34	9600	3/25	59	18.0	32.7	24.0*
Mt. Baldy R.S.	11K12	9500	3/26	61	19.7	31.3	24.2*
Pine Creek	12L1	8700	3/28	27	9.7	18.8	16.5*
Rees' Flat	11K36	7300	3/22	28	7.4	19.5	12.7*
Shingle Mill	12L11	6200	3/27	5	1.8	13.5	- -
Thistle Flat	11K35	8500	3/25	43	14.6	22.4	16.5*

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation; Water content estimated. * Estimated 1943-57, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

BEAVER RIVER

Big Flat	12L7	10000	3/26	38	11.2	22.3	20.0
Merchant's Valley	12L9	8200	3/26	5	1.5	15.3	11.1
Otter Lake	12L8	9300	3/26	29	8.2	20.2	17.3

PAROWAN CREEK

Ed Ward Flat	12M12	8300	3/27	8	2.4	11.8	7.9*
Yankee Reservoir	12M11	8700	3/27	22	5.6	13.9	11.0*

COAL CREEK

Cedar Breaks	12M1	10390	3/28	38	9.6	33.4	24.0
Midway Valley x	12M2	9800	3/28	36	8.8	33.0	25.2*
Urie Flat	12M10	8450	3/28	1	0.4	11.8	7.3*
Webster Flat	12M3	9200	3/28	20	5.5	26.8	18.1

ENTERPRISE TO NEW HARMONY DRAINAGES

Little Grassy Creek	13M4	6100	3/29	0	0.0	3.1	- -
Long Flat	13M2	8000	3/29	1	0.3	9.8	6.4*

COLORADO RIVER DRAINAGE

UPPER GREEN RIVER IN UTAH

(Tributaries above Flaming Gorge)

Black's Fork Jct.	10J22	8925	3/20	28	7.2	11.1	- -
Buck Pasture A	10J23	9700	3/25	39	10.5A	- -	- -
East Fk. Black's Fk. G.S.	10J21	9300	3/20	29	7.6	12.1	- -
Henry's Fork A	10J24	10200	3/25	36	9.7	- -	- -
Hewinta Guard Station	10J4	9500	3/21	32	8.9	10.8	10.5
Hickerson Park	9J8	9100	3/27	13	3.8	10.6	- -
Hole-in-the-Rock	10J1	9150	3/26	18	4.1	8.1	6.5
Hole-in-the-Rock G.S.	10J3	8300	3/25	6	1.2	4.2	1.8*
Middle Beaver Creek	10J2	8550	3/26	12	3.0	7.3	5.7*
Spirit Lake	9J7	10300	3/27	23	5.6	19.0	- -
Steel Creek Park	10J20	9900	3/20	36	9.3	14.4	- -

BRUSH CREEK

Kings Cabin(lower)	9J2	8600	3/26	14	4.2	14.4	10.5
Kings Cabin(upper)	9J1	8730	3/26	23	5.8	17.3	12.0

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

DUCHESNE RIVER

Ashley Twin Lakes A	9J11	10500	3/25	21	5.2A	28.5A	- -
Atwood Basin A	10J27	10250	3/25	20	5.0A	- -	- -
Brown Duck Lake	10J9	10300	4/1	36	10.4	23.2	19.7*
Chepeta-Whiterocks Lakes, A	9J9	10300	3/25	23	5.8A	24.0A	- -
Currant Creek	11J32	7800	3/28	13	5.4	13.9	10.0*
Daniels-Strawberry Smt. x	11J23	8000	3/26	26	10.0	20.8	16.4
East Portal x	11J7	7560	3/30	14	6.2	17.0	13.1
Five Point Lake A	10J26	11000	3/25	43	11.2A	- -	- -
Indian Canyon	10K1	9100	3/27	26	7.6	20.1	13.1
Jackson Park	10J19	11300	3/21	28	7.2	20.2	15.6*
Julius Park	9J6	9800	3/25	25	6.4	22.0	- -
Lakefork Basin A	10J25	11100	No Report			23.0A	- -
Lakefork Mountain	10J10	10500	3/29	29	7.0	18.6	13.6
Lakefork Mountain #2	10J11	8900	3/29	16	5.4	15.5	8.8*
Lakefork Mountain #3	10J12	8100	3/29	12	3.4	13.2	6.4*
Mosby Mountain	9J5	9500	3/25	23	6.0	18.2	12.7
Paradise Park	9J3	10100	3/25	20	4.6	21.0	14.5
Reynolds Park A	9J10	10400	No Report			- -	- -
Rock Creek	10J18	7900	3/22	8	2.6	12.1	7.2*
Soapstone R.S. x	11J25	7800	3/28	24	8.9	14.7	14.0
Trial Lake x	10J8	9800	3/28	58	18.8	31.2	29.1
White River #1 x	10K2	8600	3/28	22	6.8	18.4	14.9*
Windy Park A	9J12	9400	3/25	18	5.0A	22.0A	- -

PRICE RIVER

Corral	10K5	8200	3/29	0	0.0	14.0	8.6*
Dry Valley Divide	11K8	7800	3/26	9	3.1	16.2d	11.7
Gooseberry Reservoir	11K4	8700	3/27	38	14.4	26.7	20.2
Grassy Trail Crk-Left Fk.	10K3	7970	3/29	9	2.5	16.8	10.1*
Huntington-Horseshoe	11K5	9800	3/27	54	19.8	33.6	24.5
Indian Canyon x	10K1	9100	3/27	26	7.6	20.1	13.1
Mammoth R.S.-Ctnwd. Crk. x	11K3	8800	3/27	40	15.2	29.2	21.3
Mud Creek #2	11K33	8300	3/26	27	8.1	17.7	14.2*
Jones Ranch	11K7	7600	3/26	2	0.5	11.4	6.2
Timberline	10K6	9100	3/30	23	6.0	24.8	- -
White River #1	10K2	8600	3/28	22	6.8	18.4	14.9*
White River #2	11K24	7600	3/28	3	1.4	13.0	9.0*
White River #3	11K25	7400	3/28	0	0.0	10.8	9.1*

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

SAN RAFAEL RIVER

Buck Flat	11K31	9400	3/25	46	15.9	22.2	16.4*
Gooseberry Reservoir	11K4	8700	3/27	38	14.4	26.7	20.2
Huntington-Horseshoe	11K5	9800	3/27	54	19.8	33.6	24.5
Mammoth R.S.-Ctnwd Crk.x	11K3	8800	3/27	40	15.2	29.2	21.3
Red Pine Ridge	11K28	9400	3/26	41	13.3	22.7	19.1*
Rush Pond	11K38	9800	3/25	38	12.9	20.8	15.1*
Seely Creek R.S.	11K9	10000	3/29	41	14.8	23.2	15.8
Stuart R.S.	11K27	7950	3/21	14	5.0	13.1	8.2*
Switchback	11K26	8600	3/27	32	10.9	22.4	18.3*
Upper Joe's Valley	11K29	8800	3/26	23	7.7	14.6	10.5*
Wrigley Creek	11K32	9000	3/25	27	8.2	16.0	11.0*

MUDDY RIVER

Black's Fork	11K14	9200	3/19	38	10.1	18.1	16.5*
Dill's Camp	11K15	9200	3/19	38	10.3	16.4	14.0*
Mt. Baldy R.S. x	11K12	9500	3/26	61	19.7	31.3	24.2*

FREMONT RIVER

Black's Flat-UM Creek	11L4	9250	3/25	26	6.8	12.6	10.3*
Donkey Reservoir	11L5	9800	3/22	25	5.4	9.3	9.0*
Farnsworth Lake x	11L1	9900	3/28	41	13.2	20.8	18.7*
Fish Lake	11L3	8700	3/25	Trace		9.5	8.3
Johnson Valley	11L6	8850	3/25	14	4.0	8.8	8.0*

ESCALANTE RIVER

Widtsoe-Escalante Smt.	11M1	9500	3/28	11	3.8	10.8	7.5
Widtsoe-Escalante #2	11M2	9500	3/28	21	4.9	12.1	10.4*
Widtsoe-Escalante #3	11M3	9500	3/28	30	7.6	14.2	- -

VIRGIN RIVER

Cedar Breaks x	12M1	10390	3/28	38	9.6	33.4	24.0
Duck Creek R.S.	12M4	8560	3/27	4	1.6	24.8	15.9
Harris Flat R.S.	12M5	7700	3/27	Trace		14.4	8.5
Long Valley Jct.	12M6	7500	3/27	0	0.0	7.1	4.2
Midway Valley x	12M2	9800	3/28	36	8.8	33.0	25.2*
Webster Flat	12M3	9200	3/28	20	5.5	26.8	18.1

SOUTHEASTERN UTAH DRAINAGES

Buckboard Flat	9M1	9000	3/21	33	8.6	15.9	14.9
Camp Jackson	9M2	8600	3/21	31	7.8	13.7	13.9*
LaSal Mountain	9L1	8800	3/22	30	8.4	11.9	11.0
LaSal Mountain(upper)	9L2	9600	3/22	44	12.7	17.8	19.0*

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation; Water content estimated. * Estimated 1943-57, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. 10/1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1943-57 AVERAGE	THIS YEAR	1943-57 AVERAGE	PERCENT OF AVERAGE

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GREAT BASIN DRAINAGE

UPPER BEAR RIVER (Above Harer, Idaho)

Chalk Creek #2 *	8000	3/25	2.62	3.88	10.62	17.45	61
Chalk Creek #3 *	7500	3/25	1.74	- -	8.51	- -	--
Monte Cristo #2	8960	3/28	4.45	- -	18.40	- -	--
Salt River Summit	7900	3/29	2.80	3.28	14.65	18.87	78
Stillwater Camp	8550	3/21	- -	- -	8.18	15.00	55
Trial Lake *	9800	3/28	3.15	4.72	19.17	24.56	78

LOWER BEAR RIVER (Below Harer, Idaho)

Dry Bread Pond	8230	3/28	3.06	4.74	16.71	23.30	72
Garden City Summit	7600	3/29	2.95	3.77	17.65	- -	--
Klondike Narrows	7400	3/29	4.13	4.13	23.18	- -	--
Little Bear (upper)	6850	3/26	3.20	2.22	15.57	20.00	78
Monte Cristo #2	8960	3/28	4.45	- -	18.40	- -	--
Tony Grove R.S. (SCS)	6250	3/29	2.75	- -	18.33	- -	--
Willow Flat	6100	3/27	2.50	3.44	17.70	23.76	74

OGDEN RIVER

Ben Lomond (lower)	5850	3/26	3.92	4.62	20.58	26.64	77
Ben Lomond Trail	6000	3/26	3.86	- -	20.86	- -	--
Causey Dam	5500	3/28	- -	- -	9.92	- -	--
Dry Bread Pond	8230	3/28	3.06	4.74	16.71	23.30	72
Horse Ridge	8260	3/25	3.91	- -	18.16	- -	--
Monte Cristo #2 *	8960	3/28	4.45	- -	18.40	- -	--
Sagebrush Flat	6300	3/28	3.36	3.47	12.97	15.60	83

WEBER RIVER

Chalk Creek #2	8000	3/25	2.62	3.88	10.62	17.45	61
Chalk Creek #3	7500	3/25	1.74	- -	8.51	- -	--
Farmington Guard Sta. (1)	7500	3/29	6.69	5.95a	20.59	30.32a	68
Farmington Rice (1)	7000	3/29	6.64	5.38a	17.97	27.59a	65
Horse Ridge	8260	3/25	3.91	- -	18.16	- -	--
Lost Creek Reservoir	6125	3/25	1.84	- -	7.95	- -	--
Mt. Dell Dam (2) *	5500	3/31	3.32	2.47a	10.18	13.44a	76
Parley's Canyon Smt.	7500	3/30	4.35	3.12	14.80	20.80	71
Silver Lake (Brighton) * (2)	8725	3/31	6.54	6.15a	21.14	30.11a	70
Smith & Morehouse	7600	3/26	2.17	3.01	13.04	18.75	70
Trial Lake *	9800	3/28	3.15	4.72	19.17	24.56	78

(1) Data supplied by U.S. Forest Service
* Adjacent Drainage

(2) Data supplied by U.S.W.B.
a All values estimated except those where symbol a occurs.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. 10/1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1943-57 AVERAGE	THIS YEAR	1943-57 AVERAGE	PERCENT OF AVERAGE

PROVO RIVER & UTAH LAKE

Clear Creek Ridge #2	8000	3/26	2.50	4.00	11.70	17.13	68
Daniels-Strawberry Smt.	8000	3/26	2.08	4.93	14.37	18.53	78
Dutchman R.S.	7500	3/28	2.97	5.27	18.87	27.62	68
East Portal Ridge	7800	3/30	2.55	- -	14.50	- -	--
Hobble Creek Smt.	7300	3/26	2.75	3.64	15.25	17.12	89
Payson R.S.	8050	3/27	3.76	3.24	12.93	18.05	72
Soapstone R.S.	7800	3/28	1.68	2.52	12.30	16.25	76
Strawberry Res.-E. Portal	7606	3/30	1.00	1.69	8.21	9.43	87
Timpanogos Divide	8200	3/28	2.70	5.44a	17.32	28.48a	61
Trial Lake	9800	3/28	3.15	4.72	19.17	24.56	78

JORDAN RIVER & TOOELE VALLEY

Middle Canyon	7000	3/27	3.73	3.85	11.14	17.28	64
Mt. Dell Dam(2)	5500	3/31	3.32	2.47a	10.18	13.44a	76
Parley's Canyon Smt.	7500	3/30	4.35	3.12	14.80	20.80	71
Silver Lake (Brighton)(2)	8725	3/31	6.54	6.15a	21.14	30.11a	70

SEVIER RIVER ABOVE RICHFIELD

Big Flat *	10290	3/26	1.90	4.52	11.27	19.00	59
Box Creek	9800	3/26	2.85	3.07	9.15	15.50	59
Castle Valley	9700	3/29	3.92	3.07	10.47	13.46	78
Cedar Breaks	10390	3/28	2.15	- -	10.05	- -	--
Duck Creek R.S.	8560	3/27	2.48	4.40	9.68	19.60	49
Kimberly Mine	8900	3/27	3.15	4.70	10.35	19.40	53
Panguitch Lake	8200	3/29	1.55	1.09	5.38	8.50	63
Webster Flat *	9200	3/28	4.55	4.40	12.79	20.00	64
Widtsoe-Escalante #3	9500	3/28	2.95	2.90	9.05	12.79	71
Widtsoe R.S.	7600	3/28	0.54	1.10a	2.81	5.24a	54

SEVIER RIVER BELOW RICHFIELD

(Including San Pitch River)

Beaver Dams	8000	3/26	3.43	3.18	11.40	14.93	76
Farnsworth Lake	9900	3/28	3.17	3.65	14.25	19.00	75
Fish Lake	8700	3/25	2.20	1.36	6.05	6.47	93
G.B.R.C. Headquarters(1)	8700	3/29	4.30	4.21a	14.26	18.76a	76
G.B.R.C. Meadows(1)	10000	3/29	5.15	4.50a	19.44	19.64a	99
G.B.R.C. Oaks(1)	7655	3/29	2.61	2.97a	9.87	13.10a	75
Gooseberry R.S.(1)	7800	3/28	2.04	2.55	9.93	12.10	82
Gooseberry Reservoir *	8700	3/27	3.29	4.08	14.34	18.30	78
Mammoth R.S. #2 *	8600	3/27	3.32	4.00	14.07	18.15	78
Mt. Baldy	9500	3/26	3.99	- -	15.42	- -	--
Pine Creek	8700	3/28	4.95	3.86	14.99	23.56	64
Shingle Mill	6200	3/27	2.50	- -	9.18	- -	--

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BEAVER RIVER

Beaver Canyon P.H. (2)	7275	3/31	1.12	2.54a	4.59	10.80a	42
Big Flat	10290	3/26	1.90	4.52	11.27	19.00	59

PAROWAN CREEK

Yankee Reservoir	8700	3/27	1.78	3.73	6.53	12.43	53
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COAL CREEK

Cedar Breaks	10390	3/28	2.15	- -	10.05	- -	--
Webster Flat *	9200	3/28	4.55	4.40	12.79	20.00	64

ENTERPRISE TO NEW HARMONY DRAINAGES

Little Grassy Creek	6100	3/29	1.95	2.59	5.38	15.00	36
Long Flat	8000	3/29	3.00	3.84	8.85	14.09	63

COLORADO RIVER DRAINAGE

UPPER BREEN RIVER IN UTAH (Tributaries above Flaming Gorge)

Black's Fork Jct.	8925	3/20	2.05	- -	8.65	- -	--
E.F. Black's Fk. G.S.	9300	3/20	2.25	- -	8.92	- -	--
Hewinta G.S.	9500	3/21	2.55	- -	9.96	- -	--
Spirit Lake	10300	3/27	1.95	- -	7.84	- -	--

BRUSH CREEK

King's Cabin(upper)	8730	3/26	2.77	2.84	8.27	13.00	64
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DUCHE\$NE RIVER

Currant Creek	7800	3/28	- -	- -	10.70	13.34	80
Daniels-Strawberry Smt. *	8000	3/26	2.08	4.93	14.37	18.53	78
East Portal Ridge *	7800	3/30	2.55	- -	14.50	- -	--
Indian Canyon	9100	3/27	1.70	- -	9.30	- -	--
Julius Park	9800	3/25	1.62	2.23	9.03	15.16	60
Lakefork Mountain	10500	3/29	2.47	2.74	9.51	14.40	66
Moon Lake	8150	4/2	1.60	1.35a	6.30	9.07a	69
Paradise Park	10100	3/25	1.35	2.65	8.54	16.25	53
Rock Creek	7900	3/22	- -	- -	7.05	12.80	55
Soapstone R.S. *	7800	3/28	1.68	2.52	12.30	16.25	76
Strawberry Res.-E. Portal *	7606	3/30	1.00	1.69	8.21	9.43	87
Trial Lake *	9800	3/28	3.15	4.72	19.17	24.56	78
White River #1 *	8600	3/28	2.35	3.20	10.00	16.31	61

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		DATE OF READING	MONTH'S PRECIPITATION	1943 - 57 AVERAGE	THIS YEAR	1943 - 57 AVERAGE	PERCENT OF AVERAGE

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PRICE RIVER

Clear Creek Ridge #2 *	8000	3/26	2.50	4.00	11.70	17.13	68
Gooseberry Reservoir	8700	3/27	3.29	4.08	14.34	18.30	78
Indian Canyon	9100	3/27	1.70	- -	9.30	- -	--
Mammoth R.S. #2	8600	3/27	3.32	4.00	14.07	18.15	78
Mud Creek	8300	3/26	3.05	2.83	11.84	16.20	73
White River #1	8600	3/28	2.35	3.20	10.00	16.31	61

SAN RAFAEL RIVER

Buck Flat	9400	3/25	3.90	3.00	16.51	17.00	97
G.B.R.C. Meadows *(1)	10000	3/29	5.15	4.50 ^a	19.44	19.64 ^a	99
Gooseberry Reservoir *	8700	3/27	3.29	4.08	14.34	18.30	78
Red Pine Ridge	9400	3/26	4.35	3.38	14.68	20.00	73
Stuart R.S.	7950	3/21	1.72	- -	9.84	14.27	69

MUDDY RIVER

Mt. Baldy R.S. *	9500	3/26	3.99	- -	15.42	- -	--
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FREMONT & ESCALANTE RIVERS

Black's Flat-U.M. Creek	9250	3/25	2.80	3.57	8.40	11.37	74
Farnsworth Lake *	9900	3/28	3.17	3.65	14.25	19.00	75
Fish Lake	8700	3/25	2.20	1.36	6.05	6.47	93
Widtsoe-Escalante #3	9500	3/28	2.95	2.90	9.05	12.79	71

VIRGIN RIVER

Duck Creek R.S.	8560	3/27	2.48	4.40	9.68	19.60	49
Webster Flat	9200	3/28	4.55	4.40	12.79	20.00	64

SOUTHEASTERN UTAH DRAINAGES

Buckboard Flat	9000	3/21	3.75	3.25	12.75	19.00	67
Camp Jackson	8600	3/21	2.45	2.09	10.00	15.01	67
LaSal Mountain(upper)	9600	3/22	2.80	5.34	12.28	19.00	65

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Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
Soil Conservation Service
Forest Service
U. S. Department of Commerce
Weather Bureau
U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah Agricultural Experiment Station
Utah Fish and Game Department
Utah State Engineer
Little Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioner
Spanish Fork River Commissioner
Utah Water and Power Board

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

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Kaiser Steel Corporation

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